Form PTO-948 (Rev. 03/03)
Application No. 10/031969

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 5/31/02 are:

A. ___ approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. X objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. Corrected drawings are required.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).

___ Color drawings are not acceptable until petition is granted. Fig(s)_____

___ Pencil and non black ink not permitted. Fig(s)____

2. PHOTOGRAPHS. 37 CFR 1.84(b)

___ 1 full-tone set is required. Fig(s)_____

___ Photographs may not be mounted. 37 CFR 1.84(e)

___ Photographs must meet paper size requirements of of 37 CFR 1.84(f). Fig(s)_____

___ Poor quality (half-tone). Fig(s)_____

3. TYPE OF PAPER. 37 CFR 1.84(e)

___ Paper not flexible, strong, white, and durable. Fig(s)_____

___ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s)_____

4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
21.0 cm by 29.7 cm (DIN size A4) or
21.6cm by 27.9cm (8 1/2x 11 inches)

___ All drawing sheets not the same size. Sheet(s)_____

___ Drawings sheets not an acceptable size. Fig(s)____

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

___ Margins not acceptable. Fig(s)_____

_____Top (T) X Left (L)

_____Right (R) _____ Bottom (B)

6. VIEWS. 37 CFR 1.84(h)
REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed.

___Views not labeled separately or properly. Fig(s)_____

7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)

____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s)_____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

___ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)_____

9. SCALE. 37 CFR 1.84(k)

___ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s)_____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)

X Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) 1-4

11. SHADING. 37 CFR 1.84(m)

___ Solid black areas pale. Fig(s) _____

___ Solid black shading not permitted. Fig(s)_____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)

___ Numbers and reference characters not plain and legible. Fig(s)_____

___ Figure legends are poor. Fig(s)_____

___ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s)_____

___ English alphabet not used. 37 CFR 1.84(p)(2) Fig(s)_____

___ Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)_____

13. LEAD LINES. 37 CFR 1.84(q)

___ Lead lines missing. Fig(s)_____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

___ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s)_____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

___ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s)_____

16. DESIGN DRAWINGS. 37 CFR 1.152

___ Surface shading shown not appropriate. Fig(s)_____

___ Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s)_____

COMMENTS:

Reviewer T Ang

If you have questions, call (703) 305-8404.

Date 10/23/03

Attachment to Paper No. _____

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